

09/926015

PATENT

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s):

SUGDEN et al.

Application No.: Not Yet Assigned

Group Art Unit: Not yet assigned

Filed: Herewith

Examiner: Not yet assigned

Title: FIBRE OPTIC GRATING SENSOR

Attorney Docket No.: 105.002

PRELIMINARY AMENDMENT UNDER 37 CFR 1.115

Assistant Commissioner for Patents  
 BOX PCT  
 Washington, D.C. 20231

Dear Sir:

Prior to calculation of the claims fees and prior to examination of the above-referenced U.S. Patent Application (filed herewith under 35 U.S.C. §371, based on PCT/GB/00/00566), please amend this application as follows.

In the claims:

Kindly DELETE claims 52 and 53 without prejudice.

Kindly ADD new claim 54.

Kindly AMEND claims 4, 5, 6, 8, 10, 13, 16, 18, 19, 20, 21, 22, 28, 30, 31, 33, 34, 35, 36, 37, 42, 43, 46, 48, 50 and 51 as follows:

4. (AMENDED) A sensor according to claim 2 in which the periodic variation in the or each region includes a section in which the phase of the periodic variation substantially reverses.